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D. S. Batory
ACM Transactions on Database Systems (TODS) December 1985
Volume 10 Issue 4
> Modeling the storage structures of a DBMS is a prerequisite to understanding and optimizing database performance. Previously, such modeling was very difficult because the fundamental role of conceptual-to-internal mappings in DBMS implementations went unrecognized. In this paper we present a model of physical databases, called the transformation model, that makes conceptual-to-internal mappings explicit. By exposing such mappings, we show that it is possible to model the storage ...

2 Mobile Computing: Scaling replica maintenance in intermittently synchronized mobile databases   100%
Wai Gen Yee , Michael J. Donahoo , Edward Omiecinski , Shamkant B. Navathe
Proceedings of the tenth international conference on Information and knowledge management October 2001
> To avoid the high cost of continuous connectivity, a class of mobile applications employs replicas of shared data that are periodically updated. Updates to these replicas are typically performed on a client-by-client basis--that is, the server individually computes and transmits updates to each client--limiting scalability. By basing updates on replica groups (instead of clients), however, update generation complexity is no longer bound by client population size. Clients then download updates of ...

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